

0900219.070204

| | | | | | | | | | | | | | | | | | |
|----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|
| 5' | GGC | TTC | TGG | GAG | CNA | CCG | CTC | CGC | TCT | CGT | TGG | TTC | CGG | AGG | TCG | CTG | CGG |
| | | | | | | | | | | | | | | | | | |
| | CGG | TGG | GAA | ATG | CTG | GCG | CGC | GCG | GCG | CGG | GGG | CAC | TGG | GGC | CCT | TTT | GCT |
| | | | | | | | | | | | | | | | | | |
| | | | | | | | | | | | | | | | | | |
| | GGG | CTC | TCT | ACT | GGC | TTC | TGG | CCG | CGC | TCC | GGC | CGC | GCC | TCC | TCT | GGA | TTG |
| | G | L | S | T | G | F | W | P | R | S | G | R | A | S | S | G | L |
| | | | | | | | | | | | | | | | | | |
| | CGA | AAC | ACC | GTG | GTA | CTG | TTC | GTG | CCG | CAG | CAG | GAG | GCC | TGG | GTG | GTG | GAG |
| | R | N | T | V | V | L | F | V | P | Q | Q | E | A | W | V | V | E |
| | | | | | | | | | | | | | | | | | |
| | ATG | GGC | CGA | TTC | CAC | CGG | ATC | CTG | GAG | CCT | GGT | TTG | AAC | ATC | CTC | ATC | CCT |
| | M | G | R | F | H | R | I | L | E | P | G | L | N | I | L | I | P |
| | | | | | | | | | | | | | | | | | |
| | TTA | GAC | CGG | ATC | CGA | TAT | GTG | CAG | AGT | CTC | AAG | GAA | ATT | GTC | ATC | AAC | GTG |
| | L | D | R | I | R | Y | V | Q | S | L | K | E | I | V | I | N | V |
| | | | | | | | | | | | | | | | | | |
| | GAG | CAG | TCG | GCT | GTG | ACT | CTC | GAC | AAT | GTA | ACT | CTG | CAA | ATC | GAT | GGA | GTC |
| | E | Q | S | A | V | T | L | D | N | V | T | L | Q | I | D | G | V |
| | | | | | | | | | | | | | | | | | |
| | TAC | CTG | CGC | ATC | ATG | GAC | CCT | TAC | AAG | GCA | AGC | TAC | GGT | GTG | GAG | GAC | CCT |
| | Y | L | R | I | M | D | P | Y | K | A | S | Y | G | V | E | D | P |
| | | | | | | | | | | | | | | | | | |
| | TAT | GCC | GTC | ACC | CAG | CTA | GCT | CAA | ACA | ACC | ATG | AGA | TCA | GAG | CTC | GGC | AAA |
| | Y | A | V | T | Q | L | A | Q | T | T | M | R | S | E | L | G | K |
| | | | | | | | | | | | | | | | | | |
| | TCT | NTG | GAC | AAA | GTC | TTC | CGG | GAA | CGG | GAG | TCC | CTG | AAT | GCC | AGC | ATT | GTG |
| | S | X | D | K | V | F | R | E | R | E | S | L | N | A | S | I | V |
| | | | | | | | | | | | | | | | | | |
| | GCC | ATC | AAC | CAA | GCT | GCT | GAC | TGC | TGG | GGT | ATC | CGC | TGC | CTN | CGT | TAT | GAG |
| | A | I | N | Q | A | A | D | C | W | G | I | R | C | L | R | Y | E |
| | | | | | | | | | | | | | | | | | |
| | AAG | GAT | ATC | CAT | GTG | CCA | CCC | CGG | GTG | AAA | GAG | TCT | ATG | CAG | ATG | CAG | GTG |
| | K | D | I | H | V | P | P | R | V | K | E | S | M | Q | M | Q | V |
| | | | | | | | | | | | | | | | | | |
| | GCA | GAG | CGG | CGG | AAA | CGG | GCC | ACA | GTT | CTA | GAG | TCT | GAG | GGG | ACC | CGA | GAG |
| | A | E | R | R | K | R | A | T | V | L | E | S | E | G | T | R | E |

FIGURE 1A

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711 720 729 738 747 756
GCC ATC AAT GTG GCA GAA GGG AAG AAA CAG GCC CAG ATC CTG GCC TCC GAA GCA
A I N V A E G K K Q A Q I L A S E A

765 774 783 792 801 810
GAA AAG GCT GAA CAG ATA AAT CAG GCA GCA GGA GAG GCC AGT GCA GTT CTG GCG
E K A E Q I N Q A A G E A S A V L A

819 828 837 846 855 864
AAG GCC AAG GCT AAA GCT GAA GCT ATT CGA ATC CTG GCT GCA GCT CTG ACA CAA
K A K A K A E A I R I L A A A L T Q

873 882 891 900 909 918
CAT AAT GGA GAT GCA GCA GCT TCA CTG ACT GTG GCC GAG CAG TAT GTC AGC GCG
H N G D A A A S L T V A E Q Y V S A

927 936 945 954 963 972
TTC TCC AAA CTG GCC AAG GAC TCC AAC ACT ATC CTA CTG CCC TCC AAC CCT GGC
F S K L A K D S N T I L L P S N P G

981 990 999 1008 1017 1026
GAT GTC ACC AGC ATG GTG GCT CAG GCC ATG GGT GTA TAT GGA GCC CTC ACC AAA
D V T S M V A Q A M G V Y G A L T K

1035 1044 1053 1062 1071 1080
GCC CCA GTG CCA GGG ACT CCA GAC TCA CTC TCC AGT GGG AGC AGC AGA GAT GTC
A P V P G T P D S L S S G S S R D V

1089 1098 1107 1116 1125 1134
CAG GGT ACA GAT GCA AGT NTT GAT GAG GAA CTT GAT CGA GTC AAG ATG AGT TAG
Q G T D A S X D E E L D R V K M S *

1143 1152 1161 1170 1179 1188
TGG AGC TGG GCT TNG CCA GGG AGT CTG GGG ACA AGG AAG CAG ATT TTC CTG ATT

3

FIGURE 1B

| | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
|-----|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|------------|------------|------------|------------|------------|------------|
| 148 | R | - | - | E | R | E | S | L | N | A | S | I | V | D | A | I | N | A | A | D | C | W | G | I | R | C | L | R | Y | E | I | K | D | I | H | V | P | P | R | 789094 | |
| 165 | S | - | - | D | R | E | I | A | H | N | M | Q | S | T | L | D | D | A | T | D | A | W | G | I | K | V | E | R | V | E | I | K | D | V | K | L | P | V | Q | GI 31069 | |
| 170 | S | - | - | D | R | E | T | L | A | S | M | Q | T | I | L | D | E | A | T | E | S | W | G | I | K | V | E | R | V | E | I | K | D | V | R | L | P | I | Q | GI 1065452 | |
| 197 | S | S | Q | D | R | R | I | I | S | A | N | L | K | D | E | L | G | S | F | T | C | Q | F | G | V | E | I | T | D | V | E | I | S | D | V | K | I | - | GI 1353669 | | |
| 136 | T | - | - | S | R | D | Q | I | N | A | Q | L | R | G | V | L | D | E | A | T | G | R | W | G | L | R | V | A | R | V | E | L | R | S | I | D | P | P | S | 779701 | |
| 134 | N | - | - | K | R | E | Y | I | N | S | K | L | L | E | I | L | D | R | E | T | D | A | W | G | V | R | I | E | K | V | E | V | K | E | I | D | P | P | E | GI 1591514 | |
| 186 | V | K | E | S | M | Q | M | V | E | A | E | R | R | K | R | A | T | V | L | E | S | E | G | T | R | E | S | A | I | N | V | A | E | G | K | K | Q | A | Q | 789094 | |
| 203 | L | Q | R | A | M | A | E | A | E | A | S | R | E | A | R | A | K | V | I | A | A | E | G | E | M | N | A | - | - | - | - | - | - | - | - | - | - | - | GI 31069 | | |
| 208 | L | Q | R | A | M | A | E | A | E | A | T | R | E | A | R | A | K | V | I | A | A | E | G | E | Q | A | - | - | - | - | - | - | - | - | - | - | - | GI 1065452 | | | |
| 234 | V | K | E | G | E | N | M | G | M | S | A | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | GI 1353669 | | | | | |
| 174 | I | Q | A | S | M | E | K | Q | M | K | A | D | R | E | K | R | A | M | I | L | T | A | E | G | T | R | E | A | A | I | K | Q | A | E | G | Q | K | Q | A | Q | |
| 172 | I | K | N | A | M | A | Q | Q | M | K | A | E | R | L | K | R | A | A | I | L | E | A | E | G | E | K | P | E | - | - | - | - | - | - | - | - | - | GI 1591514 | | | |
| 226 | I | L | A | S | E | A | E | K | A | E | Q | I | N | O | A | G | E | A | S | A | V | L | A | K | A | K | A | E | A | I | - | - | - | - | - | - | - | - | 789094 | | |
| 231 | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | GI 31069 | | | | | |
| 236 | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | GI 1065452 | | | | | |
| 260 | V | I | G | P | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | GI 1353669 | | | | |
| 214 | I | L | A | E | G | A | K | Q | A | A | I | L | A | E | A | D | R | Q | S | R | M | L | R | A | Q | G | E | R | A | A | A | Y | L | Q | A | Q | Q | Q | 779701 | | |
| 259 | - | R | I | L | A | A | A | L | T | O | H | N | G | D | A | A | S | L | T | V | A | E | Q | Y | V | S | A | F | S | K | L | A | K | D | S | N | T | I | L | 789094 | |
| 244 | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | GI 31069 | | | | | |
| 249 | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | GI 1065452 | | | | | |
| 288 | S | D | V | P | S | T | S | A | A | G | T | S | T | D | T | P | N | I | P | S | I | D | I | D | H | L | I | S | V | A | S | L | A | M | D | E | H | - | L | V | GI 1353669 |
| 254 | A | K | A | I | E | K | T | F | A | A | I | K | A | G | R | P | T | P | E | M | L | A | Y | Q | L | Q | T | L | P | E | M | A | R | G | D | A | N | K | V | 779701 | |
| 298 | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | 789094 | | | | |
| 268 | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | GI 31069 | | | | | |
| 269 | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | GI 1065452 | | | | | |
| 327 | R | L | I | G | R | V | F | Q | I | N | C | K | D | I | E | P | - | I | C | I | D | L | K | H | G | S | G | S | A | Y | K | G | T | S | L | - | - | N | P | D | GI 1353669 |
| 294 | W | V | V | P | S | D | F | N | A | A | L | Q | G | F | T | R | L | L | G | K | P | G | E | D | G | V | F | - | R | F | E | P | S | P | V | E | D | Q | P | K | 779701 |

FIGURE 2B

SECRET

| | | | | | | | |
|-----|---|-----------|---------------------|-----------|-----------|-----------|--------------|
| 330 | S L S S G S S R D V O G | - - - - - | T D A S X D E E L D | - - - - - | R V K | - - - - - | 789094 |
| 276 | - - - - - | - - - - - | - - - - - | - - - - - | - - - - - | - - - - - | - - - - - |
| 276 | - - - - - | - - - - - | - - - - - | - - - - - | - - - - - | - - - - - | L GI 31069 |
| 364 | V V F E - T S L E V F G K I L T K E V S P V T V Y M N G N L K V K G S I Q D A M | - - - - - | - - - - - | - - - - - | - - - - - | - - - - - | S GI 1065452 |
| 333 | H A A D G D D A E V A G W F S T D T D P S I A R A V A - - - T A E A I A R K P V Z 79701 | - - - - - | - - - - - | - - - - - | - - - - - | - - - - - | GI 1353669 |

| | | | | | | |
|-----|---------------------------|---------------|-----------|-----------|-----------|------|
| 355 | - - - - - | - - - - - | - - - - - | - - - - - | - - - - - | [MS] |
| 277 | Q - G I | G A K H S L G | | | | |
| 277 | D - G I | - - - - - | - - - - - | - - - - - | [S] | |
| 403 | Q L K H L V E R M S D W L | | | | | |
| 370 | E - G S L G T P P R L T Q | | | | | |

FIGURE 2C

| Library | Lib Description | Abun | Pct | Abun |
|-----------|--|------|--------|------|
| PROSTUT03 | prostate tumor, 67 M, match to PROSNOT05 | 2 | 0.0703 | |
| COLNNOT05 | colon, 40 M, match to COLNCRT01 | 2 | 0.0577 | |
| TESTNOT03 | testis, 37 M | 1 | 0.0557 | |
| LIVRNOT02 | liver, 32 F | 1 | 0.0515 | |
| HUVENOB01 | HUVEC endothelial cell line, control | 1 | 0.0418 | |
| LVENNOT03 | heart, left ventricle, 31 M | 1 | 0.0336 | |
| PROSTUT01 | prostate tumor, 50 M, match to PROSNOT02 | 1 | 0.0309 | |
| PANCTUT02 | pancreatic tumor, carcinoma, 45 F | 1 | 0.0288 | |
| KERANOT01 | keratinocytes, neonatal M | 1 | 0.0227 | |
| CRBLNOT01 | brain, cerebellum, 69 M | 1 | 0.0194 | |
| LUNGNOT04 | lung, 2 M | 1 | 0.0182 | |
| PGANNOT01 | paraganglia, 46 M | 1 | 0.0159 | |
| BRSTTUT01 | breast tumor, 55 F, match to BRSTNOT02 | 1 | 0.0150 | |

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FIGURE 3